INDIVIDUAL PROPERTY/DISTRICT MARYLAND HISTORICAL TRUST INTERNAL NR-ELIGIBILITY REVIEW FORM

Property/District Name: Bridge 21037	Survey Number: WA-II-1111
Project: Bridge Rehab	Agency: FHWA/SHA
Site visit by MHT Staff: X no yes Name	Date
Eligibility recommended Eligibility not	recommended X
Criteria:ABCD Considerations:	_ABCDEFGNone
Justification for decision: (Use continuation shee	t if necessary and attach map)
Based upon the MHT form and accompanying materials, over Antietam Creek in Washington County, MD, is not Register of Historic Places. Bridge No. 21037 is located a few feet from the National Register-elig bridge dating to 1833. Bridge 21037 was designed provided by the State Roads Commission and was built spanned the water race of a former mill on the sit century). The bridge is typical of the standardized architectural distinctiveness necessary to qualify bridge post-dates the construction of the mill and it not meet Criterion A. The bridge is not known gnificant to our past and thus does not qualify for Finally, based upon a Phase I arcaeological survey construction of the mill's operation have been destroyed and terracing of the area surrounding the bridge Criterion D.	ot eligible for listing in the National a 1937 concrete through-girder bridge ible Booth's Mill Bridge, a stone archin accordance with a standardized plant to replace a wooden truss bridge that ce (destroyed by fire in the late 19th bridge plans of the 1930s and lacks the it for listing under Criterion C. The speriod of significance, and thus does to have been associated with persons or listing under Criterion B. Inducted in 1987, it was determined that burces which may have remained from the oy repeated road grading, construction,
Documentation on the property/district is presented in	n:Review and Compliance Files
Prepared by: Rita Suffness, Project Planning Division	<u>n</u>
Elizabeth Hannold and Kim Williams Reviewer, Office of Preservation Services	February 12, 1996 Date
NR program concurrence: yes no not ap	
Reviewer NR program	Date

Jund

MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA - HISTORIC CONTEXT

I.	Geographic Region:				
	Eastern Shore Western Shore	<pre>(all Eastern Shore counties, and Cecil) (Anne Arundel, Calvert, Charles, Prince George's and St. Mary's)</pre>			
	Piedmont	(Baltimore City, Baltimore, Carroll, Frederick, Harford, Howard, Montgomery)			
<u>X</u>	Western Maryland	(Allegany, Garrett and Washington)			
II.	Chronological/Developmental Pe	eriods:			
	Paleo-Indian Early Archaic Middle Archaic Late Archaic Early Woodland Middle Woodland Late Woodland/Archaic Contact and Settlement Rural Agrarian Intensification Agricultural-Industrial Transi Industrial/Urban Dominance Modern Period Unknown Period (prehisto	A.D. 1870-1930 A.D. 1930-Present			
III.	Prehistoric Period Themes:	IV. Historic Period Themes:			
	Subsistence Settlement Political Demographic Religion Technology Environmental Adaptation	Agriculture X Architecture, Landscape Architecture, and Community Planning Economic (Commercial and Industrial) Government/Law Military Religion Social/Educational/Cultural Transportation			
V. R	esource Type:				
	Category: <u>Structure</u>				
	Historic Environment: Rural				
	Historic Function(s) and Use(s): <u>Transportation/Road-related/Bridge</u>			
	Known Design Source: State Ro	ads Commission			

Bridge No. 21037 (WA-II-1111) Washington County, MD

HISTORIC CONTEXT:

MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA

Geographic Organization:

Western Maryland

Chronological/Developmental Period:

Modern (1930-Present)

Prehistoric/Historic Period Theme:

Prehistoric/Historic Archaeology,

Transportation, Commerce, Engineering

Resource Type:

Category:

Structure

Historic Environment:

Rural

Historic Function(s) and Uses: Transportation

Known Design Source:

Maryland State Roads Commission

Survey No. WA-II-1111

Maryland Historical Trust

MARYLAND INVENTORY OF
State Historic Sites Inventory Form

MARYLAND INVENTORY OF

Magi No.

DOE __yes x_no

1. Nam	le (indicate pr	eferred name)		
historic				
and/or common	Bridge 21037			
2. Loca				
street & number	MD Route 68		N/	A not for publication
city, town Bo	oonsboro	_x_vicinity of	congressional district	
state Maryla	and	county	Washington	
3. Clas	sification			
Category district building(s) structure site object	Ownership x public private both Public Acquisition in process being consideredx not applicable	Status X occupied unoccupied work in progress Accessible yes: restricted yes: unrestricted no	Present Use agriculture commercial educational entertainment government industrial military	museum park private residence religious scientific x transportation other:
4. Own	er of Prope	TTY (give names ar	nd mailing addresse	s of <u>all</u> owners)
name _{Maryla}	and Department of T	ransportationState	Highway Administr	ation
street & number	707 North Calver	t Street	telephone no	o.: (410) 333-1183
city, town	Baltimore	state	and zip code <u>м</u> D	21202
5. Loca	ation of Leg	al Description	on	
courthouse, regi	stry of deeds, etc. State	Highway Administrat	ion	liber N/A
street & number	707 North Calve	rt St.		folio N/A
	altimore		state	MD
6. Repi	resentation	in Existing	Historical Surv	eys
title N	N/A			
date			federal state	e county loc
pository for su	rvey records			-
city, town			state	
			- sidle	

		•		
Condition		Check one	Check one	
excellent	deteriorated	_x_ unaltered	_x_ original site	
good	ruins	altered	moved date of move	
X fair	unexposed			

Survey No.

WA-II-1111

Prepare both a summary paragraph and a general description of the resource and its various elements as it exists today.

Description

Bridge 21037 is a concrete through girder bridge that carries Maryland Route 68 across a former mill race northwest of Boonsboro in Washington County, Maryland. Through girder bridges are a variation of slab spans in which the slab is reinforced by the use of parapets that function as girders carrying much of the load to the abutments (Spero 1994:144). Bridge 21037 measures approximately 30 feet in length, and the roadway is approximately 24 feet wide. The substructure of the bridge is buried, but inspection of the visible portions shows that it was constructed in a single piece. The wing walls are provided by the concrete lining of the now-abandoned and filled-in race. The parapet is pierced concrete connected at each end of the bridge to rectangular pilasters. There is no plaque remaining on the bridge.

The bridge is located only a few feet from the Booth's Mill bridge, a stone arch bridge dating to 1833 that carries Route 68 across Antietam Creek. The mill race once delivered water from a dam some 300 feet north of the bridge to a mill approximately 150 feet to the south. The mill was destroyed by fire in the late nineteenth century. The structure now on the site of the former mill is an abandoned twentieth-century hydroelectric plant constructed by the Potomac and Edison Company. North of the bridge is a late-twentieth century building housing restrooms for the Devil's Backbone county park.

Prepare both a summary paragraph of significance and a general statement of history and support.

Level of Significance: $\underline{}$ national $\underline{}$ state $\underline{}$ local

Although Maryland had a fairly extensive network of roads in the Tate nineteenth century, most of them were unimproved dirt roads, dusty or muddy, depending on the weather. Long-neglected, they were usually full of ruts created by wagon wheels. The late-nineteenth century popularity of bicycling began a demand for better roads. The advent of motor vehicles in the early twentieth century further increased that demand. Between 1898 and 1916, Maryland began the enormous task of improving her road system, first under the aegis of the Highway Division of the Maryland Geological Survey, and later under the State Roads Commission. This incentive was further assisted by the Federal Aid Road Act of 1916 (Spero 1994). During the 1920s and 1930s, roads throughout the state were widened and readamized, and many narrow and deteriorating wooden bridges were replaced with wider all truss or concrete structures.

Concrete, in its modern form, began to be used for bridges in the last quarter of the nineteenth century. Its first manifestation after its rediscovery took the form of concrete arch bridges. By the first decade of the twentieth century, however, reinforced concrete slab designs were demonstrating their usefulness for small highway spans. The concrete through girder bridge was an early and popular variation of the slab span (Spero 1994).

In tandem with the effort to improve the network of roads was the development of standardized bridge designs for commonly needed reinforced concrete structures. Standardized bridge plans were first published by the State Roads Commission in 1909. They soon proved their efficacy by providing a cost-effective method for constructing or replacing the large number of small spans required on Maryland's roadways. Additional plans were issued in 1912, 1919, 1920, 1924, 1930, and 1933 (Spero 1994:23-30).

Bridge 21037 was one such bridge constructed in accordance with a standardized plan provided by the State Roads Commission. It was built in 1937, to specifications issued in the 1933 standardized plan, to replace a former deteriorated wooden truss bridge that spanned the water race. The race was originally associated with a grist mill that was destroyed by fire in the late nineteenth century. It also may have been reused with the hydroelectric facility constructed on the site of the former mill. The race was almost entirely filled in the 1960s or 1970s by a former owner of the hydroelectric plant (Berger Burkavage, Inc. 1987).

Bridge 21037 has been evaluated under National Register of Historic Places Criteria A, B, C, and D. It does not appear to be eligible for listing in the National Register under any of the criteria. (See continuation sheets)

Major Bibliographical References

Survey No. WA-II-1111

Spero, P.A.C., & Co. Historic Bridges in Maryland: Historic Context Report, 1994. Berger Burkavage. Phase I Archaeological Survey, 1987. National Park Service. National Register Bulletin 15: How to Apply the National

Register Criteria for Evaluation Historic Preservation Plan. Maryland Historical Maryland Comprehensive

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	V.	aco	yı a	hiiire	ai Data

Acreage of nominated propertyle	ess than 1			
Quadrangle name <u>Funkstown</u>			Quadran	gle scale 1:24000
UTM References do NOT compl	ete UTM refe	rences		
Zone Easting North	ning	B Zone	Easting	Northing
c	لبيا	D		
E		F		
G L L L		н	لنبليلا	
Verbal boundary description an Boundary includes the		adway, abutmen	ts.	* · · · · · · · · · · · · · · · · · · ·
List all states and counties for	properties over	rlapping state or	county boundaries	N/A
state	code	county		code
state	code	county		code
11. Form Prepa	red By			
name/title Alice Crampto	n, Senior Hi	storian		
organization Parsons Enginee	ring Science	, Inc	date May 4, 199	95
street & number 10521 Rosehav	en Street		telephone (703)	218-1093
city or town Fairfax			state VA	22030

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 supplement.

The survey and inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

return to:

Fairfax

city or town

Maryland Historical Trust

Shaw House 21 State Circle

Annapolis, Maryland 21401

(301) 269-2438

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The bridge was first evaluated for its significance in association with the mill under Criteria A and B. Although the current bridge spans what was once the old mill race, that mill race was filled in with earth and debris taken from the power plant in the late 1960s or early 1970s (Berger Burkavage 1987). Because the bridge was constructed more than 35 years after the mill was destroyed, it cannot be said to be significant under Criterion A for its association with the mill; nor can it be said to be significant under Criterion B for its association with John Booth, who reportedly built the mill in 1791. Both the mill and the mill race lack integrity; thus, there is no association of the bridge with the mill's operation.

Bridge 21037 was then evaluated under Criterion A for its significance in the development of transportation in the early modern period. To be eligible for listing in the National Register, the property must be "strongly representative of the context or be the sole example of a property type that is important in illustrating the historic context."

Maryland Route 68 is a major route between Boonsboro and Williamsport, as it had been since the early nineteenth century (Spero 1994). As such, it presumably received the attention of the State Roads Commission in the 1920s and 1930s. Although the bridge was built in 1937 to replace a former wooden structure, it does not appear to be strongly representative of the 1920s and 1930s road improvement campaign, which aimed to widen and pave roadways and to replace narrow bridges that were incapable of handling the heavier, faster vehicular traffic.

Route 68 does not appear to have been widened at the time of the bridge's construction. Booth's Mill bridge which is adjacent to Bridge 21037 was not widened at that time. Bridge 21037 appears to have been a routine bridge replacement, not a particularly significant one that would illustrate the trend toward improved roadways. Nor is the bridge the sole example of a concrete girder bridge that would illustrate a technological advance in bridge design in the early modern period. Maryland is replete with concrete girder bridges constructed during this period that span its creeks and rivers.

Macadamizing Route 68 undoubtedly improved transportation between Boonsboro and Williamsport, but it cannot be said that Bridge 21037 was of particular importance in this endeavor or that it illustrates the development of transportation in the early modern period.

Bridge 21037 was also evaluated under Criterion C for its significant design or construction techniques. To be eligible under Criterion C, a property must "embody distinctive characteristics of a type, period, or method of construction; represent the work of a master; possess high artistic value; or represent a significant and distinguishable entity whose components may lack individual distinction." Nevertheless, to avoid listing every 1930s concrete through girder bridge in the United States, it must be demonstrated that the distinctive characteristics embodied in the structure are of sufficient significance to warrant its inclusion in the National Register. In evaluating Bridge 21037 under Criterion C, it is necessary to weigh its significance in terms of the evolution of bridge technology at the time of its construction in 1937.

The reintroduction of concrete as a building material and its further improvement in the form of reinforced concrete were undoubtedly of great importance for the construction of bridges. Nevertheless, these advances came about in the nineteenth century and were well established by the time Bridge 21037 was built in 1937. It cannot, therefore, be said that its composition of reinforced concrete was a significant innovation that would make it worthy of listing in the National Register.

Did its design as a concrete through girder bridge signify an important innovation in 1937? Concrete through girder bridges were an important adaptation of the concrete slab, making bridges stronger and safer. Nevertheless, the concrete through girder design had been used at least since 1912 (Spero 1994). It cannot be said, then, that this bridge, coming as it did a quarter century later, represents a significant departure from or addition to what was, by then, a common bridge design.

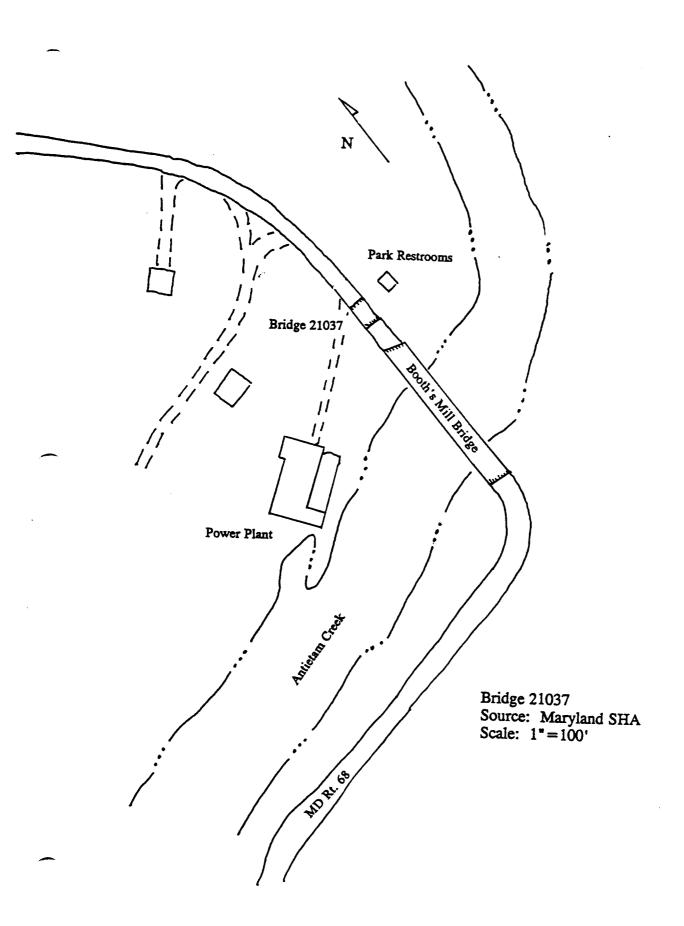
A final significant development in the evolution of bridge technology was the use of standardized bridge plans. The use of standardized bridge plans was initiated by the railroads in the nineteenth century. By 1900, bridge designers realized the practicality of standardized plans for the construction of new bridges or the replacement of outmoded bridges in the modernization of Maryland's roadway network. The Maryland State Road Commission issued its first set of standardized plans in 1909. Six more sets of standardized plans were published between 1909 and 1933 (Spero 1994:30-32). Bridge 21037 was build according to the plans that had already been in existence for four years. It cannot be said that the use of

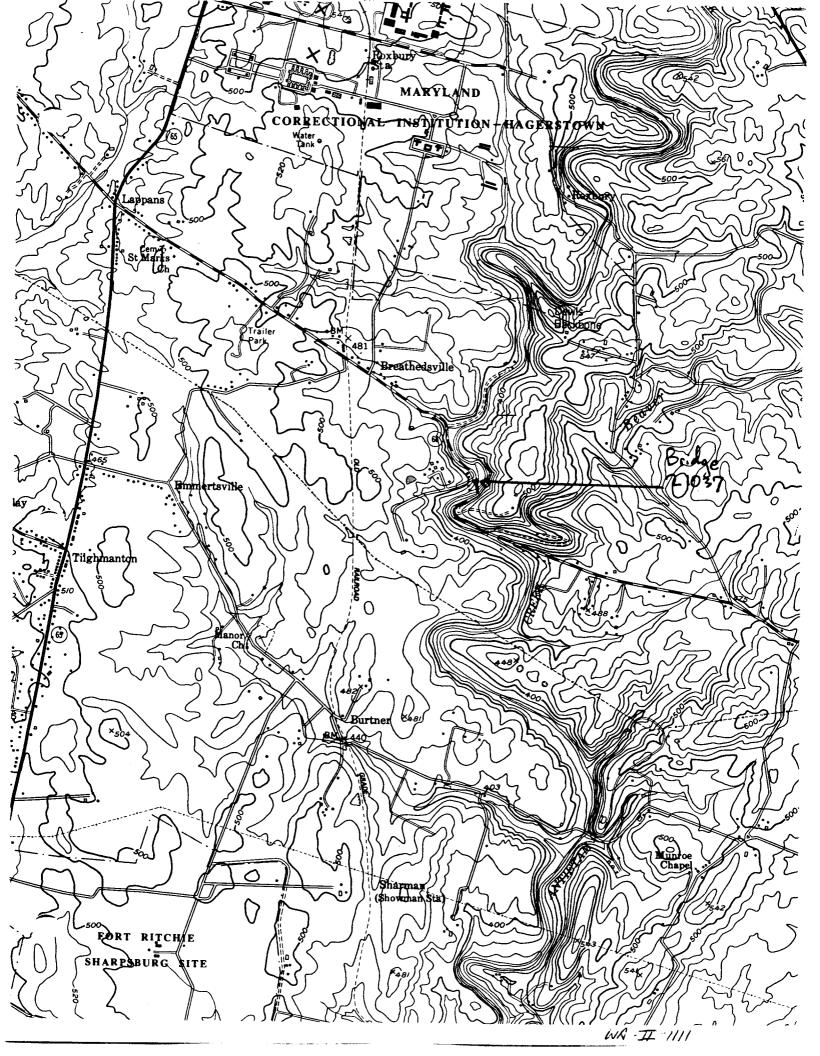
standardized plans in the design of a 1937 bridge represents a significant engineering innovation that would warrant listing the bridge in the National Register.

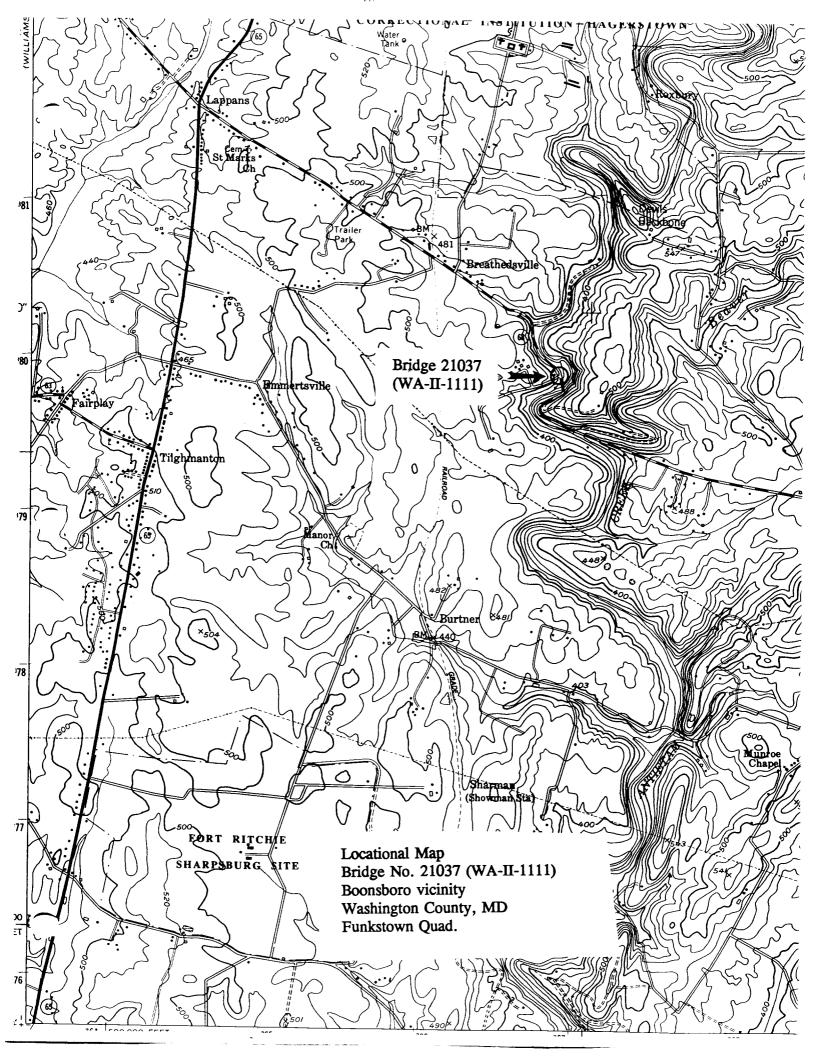
The use of a standard plan, issued by a state agency, in the design of Bridge 21037 also precludes listing it in the National Register as the work of a master. In addition, it is not reasonable to suppose that a bridge built to standard specifications in an attempt to cut costs would possess high artistic value.

An additional issue to be considered with regard to Bridge 21037 is its integrity of setting, feeling, and association. Integrity of setting refers to "the *character* of the place in which the property played its historical role. It involves *how*, not just where, the property is situated and its relationship to surrounding features and open space." Integrity of feeling "results from the presence of physical features that, taken together, convey the property's historic character." Integrity of association provides the link between the property and the historic event. "A property retains association if it *is* the place where the event or activity occurred and is sufficiently intact to convey that relationship to an observer." Because the open space under the bridge has been filled in, leaving it "spanning" level ground, the bridge no longer retains its relationship to its former surrounding features. There is no open space beneath the bridge, that open space being one of the key features in defining a "bridge". Its association is no longer sufficiently intact to convey to the observer that it is, in fact, a bridge at all.

Evaluation under National Register Criterion D, based on a Phase I archaeological survey done by Berger Burkavage, Inc. in 1987, suggests that whatever potentially significant archaeological resources may have remained from the period of the mill's operation or that of the hydroelectric facility have been destroyed by repeated road grading, construction, and terracing of the area surrounding the proposed project site (Berger Burkavage, Inc. 1987).









WAIT-IIII Bridge 12037 washington County, mo Alice Crampton 7-1994 Parsons Engineery Secence, Inc. Bridge 12037 Facing East West Elevation



WATILL Bridge 12037 washington County, mo. Alice Crampton 7-1994 Parsons Engineering Science, Inc Bridge 12037, Facing West East Elevation 45



WA I - 1111 -Bridge 12037 washington County, mo Alice Crampton 7-1994 Parsons Engineering Jaienes, Inc Bridge 12037, Facing N.E (SW Elevation)



WAIT-1111 Bridge 12037 washington County, mo Alice Grampton 7-94 Parsons Engineeing Science Inc Bridge 12037 East Elevation Facing west



WAII-III) = Bridge 12037 washington County, mD Alice (rampton 7-9x Parsons Engineering Science, Inc South Approach 5/5